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communication circuitry configured to communicate the forward link communication signal; and a communication station remotely located with respect to the housing and configured to receive the forward link communication signal from the communication circuitry and to radiate a forward link wireless signal corresponding to the forward link communication signal; and at least one remote communication device configured to receive the forward link wireless signal. --.

In the Claims

Please replace the claims with the following clean version of the entire set of pending claims, in accordance with 37 C.F.R. § 1.121(c)(1)(I).

A marked up version showing amendments to any claims being changed is provided in one or more accompanying pages separate from this amendment in accordance with 37 C.F.R. § 1.121(c)(1)(ii).

1. A wireless communication system comprising:
an interrogator including:
a housing including circuitry configured to generate a forward link communication signal;
communication circuitry configured to communicate the forward link communication signal; and
a communication station remotely located with respect to the housing and configured to receive the forward link communication signal from the communication

circuitry and to radiate a forward link wireless signal corresponding to the forward link communication signal; and

a remote communication device configured to receive the forward link wireless signal.

2. The wireless communication system according to claim 1 further comprising a driver amplifier coupled with the circuitry and configured to increase the power of the forward link communication signal and to apply the forward link communication signal to an input of the communication circuitry.

3. The wireless communication system according to claim 1 wherein the communication station includes adjustment circuitry configured to receive the forward link communication signal from the communication circuitry and to adjust an electrical characteristic of the forward link communication signal.

4. The wireless communication system according to claim 3 wherein the adjustment circuitry comprises automatic gain control circuitry.

5. The wireless communication system according to claim 4 wherein the automatic gain control circuitry is configured to monitor the power of the forward link communication signal and adjust the power of the forward link communication signal responsive to the monitoring.

6. The wireless communication system according to claim 1 wherein the communication station includes a power amplifier configured to receive the forward link communication signal from the communication circuitry and to amplify the forward link communication signal.

7. (Amended) The wireless communication system according to claim 6 wherein the communication station includes an antenna configured to receive the forward link communication signal from the power amplifier and to radiate the forward link wireless signal.

8. The wireless communication system according to claim 1 wherein the remote communication device includes a radio frequency identification device.

9. The wireless communication system according to claim 1 wherein the communication circuitry includes a coaxial RF cable.

10. The wireless communication system according to claim 1 wherein the communication circuitry includes a plurality of transceivers individually coupled with one of the housing and the communication station.

11. An interrogator of a wireless communication system comprising:
a housing including circuitry configured to generate a forward link communication signal;

communication circuitry outside of the housing and coupled with the circuitry and configured to communicate the forward link communication signal; and

a communication station remotely located with respect to the housing and including an antenna coupled with the communication circuitry and configured to radiate a forward link wireless signal corresponding to the forward link communication signal.

12. The interrogator according to claim 11 further comprising a driver amplifier coupled with the circuitry and configured to increase the power of the forward link communication signal and to apply the forward link communication signal to an input of the communication circuitry.

13. The interrogator according to claim 11 wherein the communication station includes adjustment circuitry configured to receive the forward link communication signal from the communication circuitry and to adjust at least one electrical characteristic of the forward link communication signal.

14. The interrogator according to claim 11 wherein the adjustment circuitry comprises automatic gain control circuitry.

15. The interrogator according to claim 14 wherein the automatic gain control circuitry is configured to monitor the power of the forward link communication signal and adjust the power of the forward link communication signal responsive to the monitoring.

16. The interrogator according to claim 11 wherein the communication station includes a power amplifier configured to receive the forward link communication signal from the communication circuitry and to amplify the forward link communication signal.

17. The interrogator according to claim 11 wherein the communication station includes an antenna configured to receive the forward link communication signal from the power amplifier and to radiate the forward link wireless signal.

18. The interrogator according to claim 11 wherein the remote communication device comprises a radio frequency identification device.

19. The interrogator according to claim 11 wherein the communication circuitry includes a coaxial RF cable.

20. The wireless communication system according to claim 11 wherein the communication circuitry includes a plurality of transceivers individually coupled with one of the housing and the communication station.

21. An interrogator of a wireless communication system comprising:
- a housing including circuitry configured to generate a plurality of forward link communication signals; and
 - a plurality of communication stations remotely located with respect to the housing and individually configured to receive at least one of the forward link communication signals from the housing and radiate a forward link wireless signal corresponding to the at least one forward link communication signal.
22. The interrogator according to claim 21 wherein the communication stations individually include adjustment circuitry configured to receive the at least one forward link communication signal and to adjust at least one electrical characteristic of the forward link communication signal.
23. The interrogator according to claim 22 wherein the adjustment circuitry includes automatic gain control circuitry.
24. The interrogator according to claim 21 further comprising a plurality of communication circuits individually configured to communicate at least one forward link communication signal intermediate the housing and one of the communication stations.

25. The interrogator according to claim 21 wherein the communication stations are individually positioned to radiate the forward link wireless signal within one of a plurality of communication ranges.

26. An interrogator of a radio frequency identification system comprising:
a housing including:

circuitry configured to generate a forward link communication signal; and
a driver amplifier coupled with the circuitry and configured to increase the power of the forward link communication signal;

need a coaxial RF cable outside of the housing and coupled with the driver amplifier and configured to communicate the forward link communication signal; and

a communication station remotely located with respect to the housing and including:

automatic gain control circuitry coupled with the coaxial RF cable and configured to monitor the power of the forward link communication signal, compare the power with a predetermined threshold value, and adjust the power of the forward link communication signal responsive to the comparison;

a power amplifier coupled with the automatic gain control circuitry and configured to increase the power of the forward link communication signal; and

an antenna coupled with the power amplifier and configured to radiate a forward link wireless signal corresponding to the forward link communication signal.

27. A method of communicating within a wireless communication system comprising:

- providing an interrogator and at least one remote communication device;
- generating a forward link communication signal using circuitry within a housing of the interrogator;
- communicating the forward link communication signal from the housing using communication circuitry;
- receiving the forward link communication signal from the communication circuitry within a communication station of the interrogator remotely located from the housing;
- radiating a forward link wireless signal corresponding to the forward link communication signal using the communication station; and
- receiving the forward link wireless signal within the at least one remote communication device.

28. The method according to claim 27 further comprising amplifying the forward link communication signal before the communicating.

29. The method according to claim 27 further comprising adjusting at least one electrical characteristic of the forward link communication signal before the radiating.

30. The method according to claim 29 wherein the adjusting comprises adjusting using automatic gain control circuitry.

31. The method according to claim 29 wherein the adjusting includes:
monitoring the power of the forward link communication signal within the communication station; and
adjusting the power of the forward link communication signal responsive to the monitoring.

32. The method according to claim 31 wherein the monitoring includes:
adjusting a threshold value corresponding to a distance intermediate the housing and the communication station; and
comparing the power of the forward link communication signal received from the communication circuitry with the threshold value.

33. The method according to claim 27 further comprising amplifying the forward link communication signal within the communication station before the radiating.

34. The method according to claim 27 wherein the providing at least one remote communication device comprises providing a radio frequency identification device.

35. A method of communicating within a wireless communication system comprising:
providing an interrogator having a housing and at least one communication station remotely located from the housing;

generating a forward link communication signal using circuitry within the housing;
communicating the forward link communication signal from the housing using
communication circuitry;

receiving the forward link communication signal from the communication circuitry
within the communication station; and

radiating a forward link wireless signal corresponding to the forward link
communication signal using the communication station.

36. The method according to claim 35 further comprising amplifying the forward
link communication signal before the communicating.

37. The method according to claim 35 further comprising adjusting at least one
electrical characteristic of the forward link communication signal before the radiating.

38. The method according to claim 37 wherein the adjusting includes adjusting
using automatic gain control circuitry.

39. The method according to claim 37 wherein the adjusting includes:
monitoring the power of the forward link communication signal within the
communication station; and
adjusting the power of the forward link communication signal responsive to the
monitoring.

40. The method according to claim 39 wherein the monitoring includes:
adjusting a threshold value corresponding to a distance intermediate the housing
and the communication station; and
comparing the power of the forward link communication signal received from the
communication circuitry with the threshold value.

41. The method according to claim 35 further comprising amplifying the forward
link communication signal within the communication station before the radiating.

42. The method according to claim 35 wherein the providing comprises providing
a plurality of communication stations remotely located from the housing, and the
communication stations are individually positioned to transmit a forward link wireless signal
within one of a plurality of communication ranges.

43. (New) The wireless communication system according to claim 1 wherein the
circuitry of the housing comprises a transmitter configured to generate the forward link
communication signal comprising a modulated signal.

44. (New) The wireless communication system according to claim 11 wherein
the circuitry of the housing comprises a transmitter configured to generate the forward link
communication signal comprising a modulated signal.

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constant network address; how can the receiver start receiving the signal

6, 7, 9, 10, 43

45. (New) The interrogator according to claim 21 wherein the circuitry of the housing is configured to generate the forward link communication signal comprising a modulated signal.

46. (New) The system of claim 26 wherein the circuitry of the housing comprises a transmitter configured to generate the forward link communication signal comprising a modulated signal.

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47. (New) The method according to claim 27 wherein the generating comprises generating the forward link communication signal comprising a modulated signal using the circuitry within the housing.

48. (New) The method according to claim 35 wherein the generating comprises generating the forward link communication signal comprising a modulated signal using the circuitry within the housing.